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THE

PRIMARY SCHOOL

ARITHMETIC:

DESIGNED FOR

PRIMARY AND INTERMEDIATE

SCHOOLS.

BY

DANIEL LEACH AND WILLIAM F. SWAN.

PHILADELPHIA:
THOMAS, COWPERTHWAIT & CO.

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1850.

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1860. Aug. 11
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STEREOTYPED AT THE
BOSTON STEREOTYPE FOUNDRY.

PREFACE.

This book is designed for primary and intermediate schools, and is prepared to conduct the pupil from the simplest combinations of numbers, by easy and gradual steps, to others more difficult and complex. It has been the principal aim of the authors to make the combinations so easy, and to repeat them in so many different forms, as to indelibly impress them on the memory, and to render frequent explanation unnecessary. Nothing is attempted to be explained which can be readily comprehended; neither are there any difficulties presented for which the mind of the pupil (if properly taught) is not fully prepared.

The pupil should be made to understand perfectly the first three lessons before proceeding to the fourth; and it should be vividly impressed upon his mind that all numbers are composed of units, and that each number contains one additional unit more than the preceding.

To aid the pupil in forming a correct idea of numbers, the teacher may make use of any visible objects for counters, or may use marks on the slate or blackboard. Visible objects, however, should not be used except for the first few lessons, as it is very important

that the habit of reckoning with abstract numbers should be early formed in the mind of the pupil.

The pupil should also begin to reckon with *figures*, and not with *words*. To enable him to do this, numbers are expressed in words only in a few instances.

Where the lessons are arranged in parallel columns, the left hand column should be recited first, and then the right, and then both in connection. The order in which the lessons are arranged may be adhered to at first, but the pupil should be required to recite them in any order the teacher may choose.

It has been thought unnecessary to give any particular mode of illustrating the different combinations of numbers, as every teacher should adapt his instructions to the understanding and capacity of his pupils.

Boston, *July* 1860.

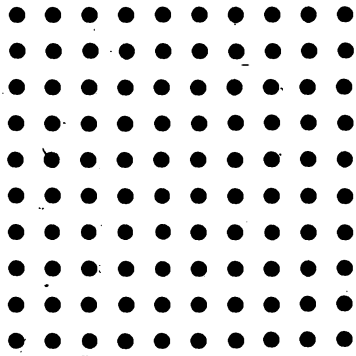
THE

PRIMARY SCHOOL ARITHMETIC.

LESSON I.

1.	11.	111.	1111.
one.	two.	three.	four.
11111.	111111.	1111111.	11111111.
five.	six.	seven.	eight.
111111111.		1111111111.	
nine.		ten.	

1.	2.	3.	4.	5.
one.	two.	three.	four.	five.
6.	7.	8.	9.	10.
six.	seven.	eight.	nine.	ten.



LESSON II.

A single thing is called *one;* as, one book, one apple, one orange, one slate, one pen. One added or joined to one is called *two.* Thus, one apple and one apple are two apples; one slate and one slate are two slates. One is also called a *unit.*

One added to one is called *two.*
One added to two is called *three.*
One added to three is called *four.*
One added to four is called *five.*
One added to five is called *six.*
One added to six is called *seven.*
One added to seven is called *eight.*
One added to eight is called *nine.*
One added to nine is called *ten.*

LESSON III.

One	is written	1	Eleven	is written	11
Two	"	2	Twelve	"	12
Three	"	3	Thirteen	"	13
Four	"	4	Fourteen	"	14
Five	"	5	Fifteen	"	15
Six	"	6	Sixteen	"	16
Seven	"	7	Seventeen	"	17
Eight	"	8	Eighteen	"	18
Nine	"	9	Nineteen	"	19
Ten	"	10	Twenty	"	20

How many units in 2? in 3? in 4? in 5? in 6? in 7? in 8? in 9? in 10?

How many tens and units in 11? in 12? in 13? in 14? in 15? in 16? in 17? in 18? in 19? in 20?

LESSON IV.

1 and 1 are 2	1 and 1 are how many?
1 and 2 are 3	2 and 1 are how many?
1 and 3 are 4	3 and 1 are how many?
1 and 4 are 5	4 and 1 are how many?
1 and 5 are 6	5 and 1 are how many?
1 and 6 are 7	6 and 1 are how many?
1 and 7 are 8	7 and 1 are how many?
1 and 8 are 9	8 and 1 are how many?
1 and 9 are 10	9 and 1 are how many?

Two slates and one slate are how many slates?
1 slate and 6 slates are how many slates?
Five marbles and one marble are how many marbles?
1 marble and 7 marbles are how many marbles?
Six pens and one pen are how many pens?

LESSON V.

2 and 1 are 3	1 and 2 are how many?
2 and 2 are 4	2 and 2 are how many?
2 and 3 are 5	3 and 2 are how many?
2 and 4 are 6	4 and 2 are how many?
2 and 5 are 7	5 and 2 are how many?
2 and 6 are 8	6 and 2 are how many?
2 and 7 are 9	7 and 2 are how many?
2 and 8 are 10	8 and 2 are how many?
2 and 9 are 11	9 and 2 are how many?

Three boys and two boys are how many boys?
2 boys and 5 boys are how many boys?
Five girls and two girls are how many girls?
2 girls and 7 girls are how many girls?
Eight chairs and two chairs are how many chairs?
2 books and 8 books are how many books?

LESSON VI.

3 and 1 are 4	1 and 3 are how many?
3 and 2 are 5	2 and 3 are how many?
3 and 3 are 6	3 and 3 are how many?
3 and 4 are 7	4 and 3 are how many?
3 and 5 are 8	5 and 3 are how many?
3 and 6 are 9	6 and 3 are how many?
3 and 7 are 10	7 and 3 are how many?
3 and 8 are 11	8 and 3 are how many?
3 and 9 are 12	9 and 3 are how many?

5 plums and 3 plums are how many plums?
7 boys and 3 boys are how many boys?
3 girls and 8 girls are how many girls?
9 pins and 3 pins are how many pins?
6 apples and 3 apples are how many apples?

LESSON VII.

4 and 1 are 5	1 and 4 are how many?
4 and 2 are 6	2 and 4 are how many?
4 and 3 are 7	3 and 4 are how many?
4 and 4 are 8	4 and 4 are how many?
4 and 5 are 9	5 and 4 are how many?
4 and 6 are 10	6 and 4 are how many?
4 and 7 are 11	7 and 4 are how many?
4 and 8 are 12	8 and 4 are how many?
4 and 9 are 13	9 and 4 are how many?

4 oranges and 5 oranges are how many oranges?
7 nuts and 4 nuts are how many nuts?
9 pencils and 4 pencils are how many pencils?
8 pens and 4 pens are how many pens?
8 books and 4 books are how many books?
6 seats and 4 seats are how many seats?

LESSON VIII.

5 and 1 are 6	1 and 5 are how many?
5 and 2 are 7	2 and 5 are how many?
5 and 3 are 8	3 and 5 are how many?
5 and 4 are 9	4 and 5 are how many?
5 and 5 are 10	5 and 5 are how many?
5 and 6 are 11	6 and 5 are how many?
5 and 7 are 12	7 and 5 are how many?
5 and 8 are 13	8 and 5 are how many?
5 and 9 are 14	9 and 5 are how many?

5 books and 4 books are how many books?
6 figs and 5 figs are how many figs?
7 birds and 5 birds are how many birds?
8 miles and 5 miles are how many miles?
9 cents and 5 cents are how many cents?

LESSON IX.

6 and 1 are 7	1 and 6 are how many?
6 and 2 are 8	2 and 6 are how many?
6 and 3 are 9	3 and 6 are how many?
6 and 4 are 10	4 and 6 are how many?
6 and 5 are 11	5 and 6 are how many?
6 and 6 are 12	6 and 6 are how many?
6 and 7 are 13	7 and 6 are how many?
6 and 8 are 14	8 and 6 are how many?
6 and 9 are 15	9 and 6 are how many?

6 apples and 5 apples are how many apples?
7 caps and 6 caps are how many caps?
8 horses and 6 horses are how many horses?
9 sheep and 6 sheep are how many sheep?
4 needles and 6 needles are how many needles?
6 chairs and 6 chairs are how many chairs?

LESSON X.

7 and 1 are 8	1 and 7 are how many?
7 and 2 are 9	2 and 7 are how many?
7 and 3 are 10	3 and 7 are how many?
7 and 4 are 11	4 and 7 are how many?
7 and 5 are 12	5 and 7 are how many?
7 and 6 are 13	6 and 7 are how many?
7 and 7 are 14	7 and 7 are how many?
7 and 8 are 15	8 and 7 are how many?
7 and 9 are 16	9 and 7 are how many?

7 dollars and 4 dollars are how many?
5 pounds and 7 pounds are how many?
8 desks and 7 desks are how many?
7 seats and 9 seats are how many?
3 lemons and 7 lemons are how many?

LESSON XI.

8 and 1 are 9	1 and 8 are how many?
8 and 2 are 10	2 and 8 are how many?
8 and 3 are 11	3 and 8 are how many?
8 and 4 are 12	4 and 8 are how many?
8 and 5 are 13	5 and 8 are how many?
8 and 6 are 14	6 and 8 are how many?
8 and 7 are 15	7 and 8 are how many?
8 and 8 are 16	8 and 8 are how many?
8 and 9 are 17	9 and 8 are how many?

9 marks and 8 marks are how many?
8 blocks and 7 blocks are how many?
6 books and 8 books are how many?
8 hens and 5 hens are how many?
4 eggs and 8 eggs are how many?
3 ponies and 8 ponies are how many?

LESSON XII.

9 and 1 are 10	1 and 9 are how many?
9 and 2 are 11	2 and 9 are how many?
9 and 3 are 12	3 and 9 are how many?
9 and 4 are 13	4 and 9 are how many?
9 and 5 are 14	5 and 9 are how many?
9 and 6 are 15	6 and 9 are how many?
9 and 7 are 16	7 and 9 are how many?
9 and 8 are 17	8 and 9 are how many?
9 and 9 are 18	9 and 9 are how many?

4 shillings and 9 shillings are how many?
9 pence and 5 pence are how many?
6 feet and 9 feet are how many?
9 inches and 7 inches are how many?
8 rods and 9 rods are how many?

LESSON XIII.

10 and 1 are 11	1 and 10 are how many?
10 and 2 are 12	2 and 10 are how many?
10 and 3 are 13	3 and 10 are how many?
10 and 4 are 14	4 and 10 are how many?
10 and 5 are 15	5 and 10 are how many?
10 and 6 are 16	6 and 10 are how many?
10 and 7 are 17	7 and 10 are how many?
10 and 8 are 18	8 and 10 are how many?
10 and 9 are 19	9 and 10 are how many?

4 roses and 10 roses are how many?
10 pears and 5 pears are how many?
6 plums and 10 plums are how many?
10 cherries and 7 cherries are how many?
8 apples and 10 apples are how many?
10 trees and 9 trees are how many?

LESSON XIV.

James has 7 nuts and John has 5. How many have both of them?

Jane paid 9 cents for ribbon and 8 cents for pins. How much did she pay in all?

William gave 6 cents for some candy and 8 cents for a book. What did he give for both?

George caught 9 smelts one day and 7 the next. How many did he catch on both days?

Henry gave 5 cents for pencils and 10 cents for a slate. What did he pay away?

If there are 7 boys in one class and 8 in another, how many are there in both?

A farmer paid 6 dollars for flour and 9 dollars for corn. How much did he pay away?

9 pens and 8 pens are how many?

LESSON XV.

There are 8 sheep in one pasture and 9 in another. How many are there in both?

A man bought a sheep for 5 dollars and a calf for 7. How much did he give for both?

William has 7 oranges and John has 9. How many have both of them?

Mary gave 9 cents for pins and 6 cents for needles. How much did she pay for both?

Charles had 10 cents, and his father gave him 9 cents more. How many had he then?

A lady paid 5 dollars for a bonnet and 8 dollars for a shawl. How much did she pay for both?

Edward is 7 years old and George is 9. What is the um of their ages?

8 dollars and five dollars are how many?

LESSON XVI.

1 and 3 are 4	3 and 1 are how many?
2 and 2 are 4	2 and 2 are how many?
1 and 4 are 5	4 and 1 are how many?
2 and 3 are 5	3 and 2 are how many?
1 and 5 are 6	5 and 1 are how many?
2 and 4 are 6	4 and 2 are how many?
3 and 3 are 6	3 and 3 are how many?
1 and 6 are 7	6 and 1 are how many?
2 and 5 are 7	5 and 2 are how many?
3 and 4 are 7	4 and 3 are how many?
1 and 7 are 8	7 and 1 are how many?
2 and 6 are 8	6 and 2 are how many?
3 and 5 are 8	5 and 3 are how many?
4 and 4 are 8	4 and 4 are how many?

5 boys and 3 boys are how many?

LESSON XVII.

1 and 8 are 9	8 and 1 are how many?
2 and 7 are 9	7 and 2 are how many?
3 and 6 are 9	6 and 3 are how many?
4 and 5 are 9	5 and 4 are how many?
1 and 9 are 10	9 and 1 are how many?
2 and 8 are 10	8 and 2 are how many?
3 and 7 are 10	7 and 3 are how many?
4 and 6 are 10	6 and 4 are how many?
5 and 5 are 10	5 and 5 are how many?
1 and 10 are 11	10 and 1 are how many?
2 and 9 are 11	9 and 2 are how many?
3 and 8 are 11	8 and 3 are how many?
4 and 7 are 11	7 and 4 are how many?
5 and 6 are 11	6 and 5 are how many?

LESSON XVIII.

1 and 2 and 3 are 6	3 and 2 and 1 are how many?
2 and 3 and 4 are 9	4 and 3 and 2 are how many?
3 and 4 and 5 are 12	5 and 4 and 3 are how many?
4 and 5 and 6 are 15	6 and 5 and 4 are how many?
5 and 6 and 7 are 18	7 and 6 and 5 are how many?
6 and 7 and 8 are 21	8 and 7 and 6 are how many?
7 and 8 and 9 are 24	9 and 8 and 7 are how many?
8 and 9 and 10 are 27	10 and 9 and 8 are how many?
9 and 10 and 11 are 30	11 and 10 and 9 are how many?

Maria had 4 cents; Jane gave her 5 and John gave her 6 more. How many had she then?

George paid 8 cents for a book, 7 cents for pens, and 6 cents for pencils. How much did he pay for all?

9 cents and 8 cents and 10 cents are how many?

LESSON XIX.

2 and 1 and 9 are 12	9 and 1 and 2 are how many?
2 and 2 and 8 are 12	8 and 2 and 2 are how many?
2 and 3 and 7 are 12	7 and 3 and 2 are how many?
2 and 4 and 6 are 12	6 and 4 and 2 are how many?
2 and 5 and 5 are 12	5 and 5 and 2 are how many?
2 and 6 and 4 are 12	4 and 6 and 2 are how many?
2 and 7 and 3 are 12	3 and 7 and 2 are how many?
2 and 8 and 2 are 12	2 and 8 and 2 are how many?
2 and 9 and 1 are 12	1 and 9 and 2 are how many?

A farmer paid 6 dollars for flour, 4 dollars for sugar, and 2 dollars for tea. How much did he pay in all?

William caught 7 fish, James 3, and Robert 2. How many did they all catch?

Jane gave 4 plums to one, 3 to another, and 5 to another. How many did she give away?

LESSON XX.

3 and 1 and 9 are 13	9 and 1 and 3 are how many?
3 and 2 and 8 are 13	8 and 2 and 3 are how many?
3 and 3 and 7 are 13	7 and 3 and 3 are how many?
3 and 4 and 6 are 13	6 and 4 and 3 are how many?
3 and 5 and 5 are 13	5 and 5 and 3 are how many?
3 and 6 and 4 are 13	4 and 6 and 3 are how many?
3 and 7 and 3 are 13	3 and 7 and 3 are how many?
3 and 8 and 2 are 13	2 and 8 and 3 are how many?
3 and 9 and 1 are 13	1 and 9 and 3 are how many?

6 cents and 4 cents and 3 cents are how many?

Jane gave 8 peaches to her mother, 3 to her sister, and 2 to her brother. How many did she give away?

William caught in a brook 7 trout, George caught 3, and Robert caught 3. How many did they all catch?

LESSON XXI.

4 and 1 and 9 are 14	9 and 1 and 4 are how many?
4 and 2 and 8 are 14	8 and 2 and 4 are how many?
4 and 3 and 7 are 14	7 and 3 and 4 are how many?
4 and 4 and 6 are 14	6 and 4 and 4 are how many?
4 and 5 and 5 are 14	5 and 5 and 4 are how many?
4 and 6 and 4 are 14	4 and 6 and 4 are how many?
4 and 7 and 3 are 14	3 and 7 and 4 are how many?
4 and 8 and 2 are 14	2 and 8 and 4 are how many?
4 and 9 and 1 are 14	1 and 9 and 4 are how many?

If a man earns 4 shillings one day, 7 the next day, and 3 the next, how many shillings does he earn in three days?

A man pays 8 dollars for a coat, 2 for a vest, and 4 for a pair of boots. How many dollars does he pay for all?

LESSON XXII.

5 and 1 and 9 are 15	9 and 1 and 5 are how many?
5 and 2 and 8 are 15	8 and 2 and 5 are how many?
5 and 3 and 7 are 15	7 and 3 and 5 are how many?
5 and 4 and 6 are 15	6 and 4 and 5 are how many?
5 and 5 and 5 are 15	5 and 5 and 5 are how many?
5 and 6 and 4 are 15	4 and 6 and 5 are how many?
5 and 7 and 3 are 15	3 and 7 and 5 are how many?
5 and 8 and 2 are 15	2 and 8 and 5 are how many?
5 and 9 and 1 are 15	1 and 9 and 5 are how many?

Henry bought some nuts for 8 cents, candy for 5 cents, and an orange for 2 cents. How much did he pay for all?

A farmer sold a sheep for 7 dollars, a calf for 5 dollars, and a lamb for 3 dollars. How much did he receive for all?

LESSON XXIII.

6 and 1 and 9 are 16	9 and 1 and 6 are how many?
6 and 2 and 8 are 16	8 and 2 and 6 are how many?
6 and 3 and 7 are 16	7 and 3 and 6 are how many?
6 and 4 and 6 are 16	6 and 4 and 6 are how many?
6 and 5 and 5 are 16	5 and 5 and 6 are how many?
6 and 6 and 4 are 16	4 and 6 and 6 are how many?
6 and 7 and 3 are 16	3 and 7 and 6 are how many?
6 and 8 and 2 are 16	2 and 8 and 6 are how many?
6 and 9 and 1 are 16	1 and 9 and 6 are how many?

Jane gave 9 cents for a slate, 1 cent for a pencil, and 6 cents for paper. What did she pay for all?

Walter caught 7 fish, Robert caught 6, and Thomas caught 3. How many did they all catch?

7 dollars and 6 dollars and 3 dollars are how many?

8 pounds and 2 pounds and 6 pounds are how many?

LESSON XXIV.

7 and 1 and 9 are 17	9 and 1 and 7 are how many?
7 and 2 and 8 are 17	8 and 2 and 7 are how many?
7 and 3 and 7 are 17	7 and 3 and 7 are how many?
7 and 4 and 6 are 17	6 and 4 and 7 are how many?
7 and 5 and 5 are 17	5 and 5 and 7 are how many?
7 and 6 and 4 are 17	4 and 6 and 7 are how many?
7 and 7 and 3 are 17	3 and 7 and 7 are how many?
7 and 8 and 2 are 17	2 and 8 and 7 are how many?
7 and 9 and 1 are 17	1 and 9 and 7 are how many?

A farmer had 7 lambs in one pasture, 6 in another, and 4 in another. How many had he in all?

Jane was 8 years old, Maria was 7, and Lucy was 2. What was the sum of their ages?

7 dollars and 8 dollars and 2 dollars are how many?

LESSON XXV.

8 and 1 and 9 are 18	9 and 1 and 8 are how many?
8 and 2 and 8 are 18	8 and 2 and 8 are how many?
8 and 3 and 7 are 18	7 and 3 and 8 are how many?
8 and 4 and 6 are 18	6 and 4 and 8 are how many?
8 and 5 and 5 are 18	5 and 5 and 8 are how many?
8 and 6 and 4 are 18	4 and 6 and 8 are how many?
8 and 7 and 3 are 18	3 and 7 and 8 are how many?
8 and 8 and 2 are 18	2 and 8 and 8 are how many?
8 and 9 and 1 are 18	1 and 9 and 8 are how many?

Charles has three hens; one hen has 8 chickens, another has 7, the other 3. How many chickens has he in all?

Jane paid 9 cents for pins, 8 cents for needles, and 1 cent for a pencil. How many cents did she pay for all?

LESSON XXVI.

9 and 1 and 9 are 19	9 and 1 and 9 are how many?
9 and 2 and 8 are 19	8 and 2 and 9 are how many?
9 and 3 and 7 are 19	7 and 3 and 9 are how many?
9 and 4 and 6 are 19	6 and 4 and 9 are how many?
9 and 5 and 5 are 19	5 and 5 and 9 are how many?
9 and 6 and 4 are 19	4 and 6 and 9 are how many?
9 and 7 and 3 are 19	3 and 7 and 9 are how many?
9 and 8 and 2 are 19	2 and 8 and 9 are how many?
9 and 9 and 1 are 19	1 and 9 and 9 are how many?

A schoolboy paid 9 cents for a book, 7 cents for a slate, and 3 cents for pencils. How many cents did he pay for all?

Julia gave 9 roses to her mother, 6 to her sister, and 4 to her brother. How many roses did she give away?

LESSON XXVII.

10 and 1 and 9 are 20	9 and 1 and 10 are how many?
10 and 2 and 8 are 20	8 and 2 and 10 are how many?
10 and 3 and 7 are 20	7 and 3 and 10 are how many?
10 and 4 and 6 are 20	6 and 4 and 10 are how many?
10 and 5 and 5 are 20	5 and 5 and 10 are how many?
10 and 6 and 4 are 20	4 and 6 and 10 are how many?
10 and 7 and 3 are 20	3 and 7 and 10 are how many?
10 and 8 and 2 are 20	2 and 8 and 10 are how many?
10 and 9 and 1 are 20	1 and 9 and 10 are how many?

A lady paid 10 dollars for a silk dress, 6 dollars for a shawl, and 4 dollars for calico. How many dollars did she pay for all?

If a farmer collected 6 bushels of apples from one tree, 4 bushels from another, and 10 bushels from a third, how many bushels did he collect from all?

LESSON XXVIII.

The pupil should now be made perfectly familiar with the manner of expressing numbers with figures from twenty to one hundred, and also should be enabled to state promptly the tens and units of which any number is composed.

Twenty-one	is written	21	Thirty-one	is written	31
Twenty-two	"	22	Thirty-two	"	32
Twenty-three	"	23	Forty	"	40
Twenty-four	"	24	Forty-one	"	41
Twenty-five	"	25	Fifty	"	50
Twenty-six	"	26	Sixty	"	60
Twenty-seven	"	27	Seventy	"	70
Twenty-eight	"	28	Eighty	"	80
Twenty-nine	"	29	Ninety	"	90
Thirty	"	30	One hundred	"	100

LESSON XXIX.

How many tens and units in 21? How many in 22? How many in 23? How many in 24? How many in 25? How many in 26? How many in 27? How many in 28? How many in 29? How many tens in 30? How many tens and units in 31? How many in 32? How many in 33? How many in 34? How many in 35? How many in 36? How many in 37? How many in 38? How many in 39? How many tens in 40? How many tens and units in 41? How many in 42? How many in 43? How many in 44? How many in 45? How many in 46? How many in 47? How many in 48? How many in 49? How many tens in 50? How many tens in 60? How many in 70? How many in 80? How many in 90? How many in 100?

LESSON XXX.

2 and 9, or 9 and 2, are how many?
12 and 9, or 9 and 12, are how many?
22 and 9, or 9 and 22, are how many?
32 and 9, or 9 and 32, are how many?
42 and 9, or 9 and 42, are how many?
52 and 9, or 9 and 52, are how many?
62 and 9, or 9 and 62, are how many?
72 and 9, or 9 and 72, are how many?
82 and 9, or 9 and 82, are how many?
92 and 9, or 9 and 92, are how many?

A farmer paid 32 dollars for a cow and 9 dollars for two sheep. How much did he pay for all?

If a horse is worth 82 dollars and a saddle is worth 9 dollars, how much are they both worth?

LESSON XXXI.

3 and 9, or 9 and 3, are how many?
13 and 9, or 9 and 13, are how many?
23 and 9, or 9 and 23, are how many?
33 and 9, or 9 and 33, are how many?
43 and 9, or 9 and 43, are how many?
53 and 9, or 9 and 53, are how many?
63 and 9, or 9 and 63, are how many?
73 and 9, or 9 and 73, are how many?
83 and 9, or 9 and 83, are how many?
93 and 9, or 9 and 93, are how many?

A farmer has 23 sheep in one pasture and 9 in another. How many sheep has he in both?

A man bought a chaise for 83 dollars, and paid 9 dollars for having it repaired. How much did the chaise cost him?

LESSON XXXII.

4 and 9, or 9 and 4, are how many?
14 and 9, or 9 and 14, are how many?
24 and 9, or 9 and 24, are how many?
34 and 9, or 9 and 34, are how many?
44 and 9, or 9 and 44, are how many?
54 and 9, or 9 and 54, are how many?
64 and 9, or 9 and 64, are how many?
74 and 9, or 9 and 74, are how many?
84 and 9, or 9 and 84, are how many?
94 and 9, or 9 and 94, are how many?

A merchant received 34 dollars from one man and 9 dollars from another. How many dollars did he receive from both?

9 dollars and 4 dollars are how many?

LESSON XXXIII.

5 and 9, or 9 and 5, are how many?
15 and 9, or 9 and 15, are how many?
25 and 9, or 9 and 25, are how many?
35 and 9, or 9 and 35, are how many?
45 and 9, or 9 and 45, are how many?
55 and 9, or 9 and 55, are how many?
65 and 9, or 9 and 65, are how many?
75 and 9, or 9 and 75, are how many?
85 and 9, or 9 and 85, are how many?
95 and 9, or 9 and 95, are how many?

A young man gave 45 dollars for a watch and 9 dollars for a key and chain. What did he pay for all?

A farmer lost 9 sheep from his pasture, when he had 65 sheep left. How many had he at first?

LESSON XXXIV.

6 and 9, or 9 and 6, are how many?
16 and 9, or 9 and 16, are how many?
26 and 9, or 9 and 26, are how many?
36 and 9, or 9 and 36, are how many?
46 and 9, or 9 and 46, are how many?
56 and 9, or 9 and 56, are how many?
66 and 9, or 9 and 66, are how many?
76 and 9, or 9 and 76, are how many?
86 and 9, or 9 and 86, are how many?
96 and 9, or 9 and 96, are how many?

A merchant received 66 barrels of flour at one time, and 9 at another. How many did he receive in all?

A merchant sold a hundred bushels of corn for 86 dollars, which was 9 less than it cost him. How much did it cost?

LESSON XXXV.

7 and 9, or 9 and 7, are how many?
17 and 9, or 9 and 17, are how many?
27 and 9, or 9 and 27, are how many?
37 and 9, or 9 and 37, are how many?
47 and 9, or 9 and 47, are how many?
57 and 9, or 9 and 57, are how many?
67 and 9, or 9 and 67, are how many?
77 and 9, or 9 and 77, are how many?
87 and 9, or 9 and 87, are how many?
97 and 9, or 9 and 97, are how many?

37 dollars and 9 dollars are how many?

9 shillings and 47 shillings are how many?

If a man receives 97 dollars at one time, and 9 at another, how much does he receive in all?

LESSON XXXVI.

8 and 9, or 9 and 8, are how many?
18 and 9, or 9 and 18, are how many?
28 and 9, or 9 and 28, are how many?
38 and 9, or 9 and 38, are how many?
48 and 9, or 9 and 48, are how many?
58 and 9, or 9 and 58, are how many?
68 and 9, or 9 and 68, are how many?
78 and 9, or 9 and 78, are how many?
88 and 9, or 9 and 88, are how many?
98 and 9, or 9 and 98, are how many?

68 bushels and 9 bushels are how many?

If a farmer paid 88 dollars for a piece of land, and 9 dollars for fencing it, how much did it cost him?

9 cents and 98 cents are how many?

68 dollars and 9 dollars are how many?

LESSON XXXVII.

19 and 9, or 9 and 19, are how many?
29 and 9, or 9 and 29, are how many?
39 and 9, or 9 and 39, are how many?
49 and 9, or 9 and 49, are how many?
59 and 9, or 9 and 59, are how many?
69 and 9, or 9 and 69, are how many?
79 and 9, or 9 and 79, are how many?
89 and 9, or 9 and 89, are how many?
99 and 9, or 9 and 99, are how many?

A merchant received 49 barrels of flour at one time, and 9 barrels at another. How many did he receive in all?

A mechanic paid for work at one time 79 dollars, at another 9 dollars. How much did he pay in all?

LESSON XXXVIII.

1 and 1 are 2	Twice 1 are how many?
2 and 2 are 4	Twice 2 are how many?
3 and 3 are 6	Twice 3 are how many?
4 and 4 are 8	Twice 4 are how many?
5 and 5 are 10	Twice 5 are how many?
6 and 6 are 12	Twice 6 are how many?
7 and 7 are 14	Twice 7 are how many?
8 and 8 are 16	Twice 8 are how many?
9 and 9 are 18	Twice 9 are how many?
10 and 10 are 20	Twice 10 are how many?

There are 3 boys on one seat and 3 on another. How many are there on both?

There are 6 shillings in one dollar. How many shillings are there in 2 dollars?

LESSON XXXIX.

1 and 1 and 1 are 3	3 times 1 are how many?
2 and 2 and 2 are 6	3 times 2 are how many?
3 and 3 and 3 are 9	3 times 3 are how many?
4 and 4 and 4 are 12	3 times 4 are how many?
5 and 5 and 5 are 15	3 times 5 are how many?
6 and 6 and 6 are 18	3 times 6 are how many?
7 and 7 and 7 are 21	3 times 7 are how many?
8 and 8 and 8 are 24	3 times 8 are how many?
9 and 9 and 9 are 27	3 times 9 are how many?
10 and 10 and 10 are 30	3 times 10 are how many?

James bought 9 oranges at 3 cents apiece. How much did he give for them all?

Susan bought 3 yards of ribbon at 8 cents a yard. How much did she give for the ribbon?

9 times 3 are how many?

LESSON XL.

1 and 1 and 1 and 1 are 4.
4 times 1 are how many?
2 and 2 and 2 and 2 are 8.
4 times 2 are how many?
3 and 3 and 3 and 3 are 12.
4 times 3 are how many?
4 and 4 and 4 and 4 are 16.
4 times 4 are how many?
5 and 5 and 5 and 5 are 20.
4 times 5 are how many?
6 and 6 and 6 and 6 are 24.
4 times 6 are how many?

There are 6 shillings in 1 dollar. How many shillings are there in 4 dollars?

There are 4 weeks in 1 month. How many weeks are there in 9 months?

LESSON XLI.

7 and 7 and 7 and 7 are 28.
4 times 7 are how many?
8 and 8 and 8 and 8 are 32.
4 times 8 are how many?
9 and 9 and 9 and 9 are 36.
4 times 9 are how many?
10 and 10 and 10 and 10 are 40.
4 times 10 are how many?
11 and 11 and 11 and 11 are 44.
4 times 11 are how many?
12 and 12 and 12 and 12 are 48.
4 times 12 are how many?

LESSON XLII.

5 times 1 are 5	Once 5 are how many?
5 times 2 are 10	2 times 5 are how many?
5 times 3 are 15	3 times 5 are how many?
5 times 4 are 20	4 times 5 are how many?
5 times 5 are 25	5 times 5 are how many?
5 times 6 are 30	6 times 5 are how many?
5 times 7 are 35	7 times 5 are how many?
5 times 8 are 40	8 times 5 are how many?
5 times 9 are 45	9 times 5 are how many?
5 times 10 are 50	10 times 5 are how many?

What cost 5 oranges at 3 cents apiece?

If a horse travel 9 miles in 1 hour, how far will he travel in 5 hours?

In 1 yard there are 3 feet. How many feet are there in 9 yards?

LESSON XLIII.

6 times 1 are 6	Once 6 are how many?
6 times 2 are 12	2 times 6 are how many?
6 times 3 are 18	3 times 6 are how many?
6 times 4 are 24	4 times 6 are how many?
6 times 5 are 30	5 times 6 are how many?
6 times 6 are 36	6 times 6 are how many?
6 times 7 are 42	7 times 6 are how many?
6 times 8 are 48	8 times 6 are how many?
6 times 9 are 54	9 times 6 are how many?
6 times 10 are 60	10 times 6 are how many?

In one dollar there are 6 shillings. How many shillings are there in 8 dollars?

9 boys caught 6 fish apiece. How many fish did they all catch?

LESSON XLIV.

7 times 1 are 7	Once 7 are how many?
7 times 2 are 14	2 times 7 are how many?
7 times 3 are 21	3 times 7 are how many?
7 times 4 are 28	4 times 7 are how many?
7 times 5 are 35	5 times 7 are how many?
7 times 6 are 42	6 times 7 are how many?
7 times 7 are 49	7 times 7 are how many?
7 times 8 are 56	8 times 7 are how many?
7 times 9 are 63	9 times 7 are how many?
7 times 10 are 70	10 times 7 are how many?

In 1 week there are 7 days. How many days are there in 10 weeks?

How many days in 6 weeks? How many in 5 weeks?

If a horse travel 8 miles in 1 hour, how far will he travel in 7 hours?

LESSON XLV.

8 times 1 are 8	Once 8 are how many?
8 times 2 are 16	2 times 8 are how many?
8 times 3 are 24	3 times 8 are how many?
8 times 4 are 32	4 times 8 are how many?
8 times 5 are 40	5 times 8 are how many?
8 times 6 are 48	6 times 8 are how many?
8 times 7 are 56	7 times 8 are how many?
8 times 8 are 64	8 times 8 are how many?
8 times 9 are 72	9 times 8 are how many?
8 times 10 are 80	10 times 8 are how many?

If there are 6 seats in one row, how many seats are there in 8 rows?

What cost 8 oranges, at 4 cents apiece?

What cost 9 yards of cloth, at 8 dollars a yard.

LESSON XLVI.

9 times 1 are 9	Once 9 are how many?
9 times 2 are 18	2 times 9 are how many?
9 times 3 are 27	3 times 9 are how many?
9 times 4 are 36	4 times 9 are how many?
9 times 5 are 45	5 times 9 are how many?
9 times 6 are 54	6 times 9 are how many?
9 times 7 are 63	7 times 9 are how many?
9 times 8 are 72	8 times 9 are how many?
9 times 9 are 81	9 times 9 are how many?
9 times 10 are 90	10 times 9 are how many?

If 9 men could do a piece of work in 6 days, how many would it take to do it in one day?

If a farmer receive 5 dollars for one cord of wood, how much would he receive for 9 cords?

LESSON XLVII.

10 times 1 are 10	Once 10 are how many?
10 times 2 are 20	2 times 10 are how many?
10 times 3 are 30	3 times 10 are how many?
10 times 4 are 40	4 times 10 are how many?
10 times 5 are 50	5 times 10 are how many?
10 times 6 are 60	6 times 10 are how many?
10 times 7 are 70	7 times 10 are how many?
10 times 8 are 80	8 times 10 are how many?
10 times 9 are 90	9 times 10 are how many?
10 times 10 are 100	10 times 10 are how many?

If 5 dollars will buy one yard of cloth, how many dollars must be paid for 10 yards?

If a man work 10 hours a day, how many hours will he work in 9 days?

What cost 9 pounds of sugar at 10 cents a pound?

LESSON XLVIII.

What cost 7 knives at 8 cents apiece?

Oliver bought 9 books at 9 cents each. How many cents did he pay for the whole?

What will 10 oranges cost at 4 cents each?

What will be the cost of 8 pounds of beef at 9 cents a pound?

If one top is worth 8 cents, what are 6 tops worth?

If one pound of sugar cost 9 cents, what will 7 pounds cost?

If one orange cost 5 cents, what will 9 oranges cost?

In one pint there are 4 gills. How many gills are there in 8 pints? in 9 pints? in 10 pints?

In one gallon there are 8 pints. How many pints in 8 gallons? How many in 9 gallons?

LESSON XLIX.

James bought 6 oranges at 4 cents apiece, and 4 lemons at 3 cents apiece. What did they all cost?

A farmer sold 8 barrels of apples at 4 dollars a barrel, and 5 barrels of potatoes at 2 dollars a barrel. How much money did he receive?

A merchant sold 9 yards of cloth at 5 dollars a yard, and 4 yards of linen at 2 dollars a yard. How much did he receive for the whole?

A butcher sold 9 calves at 4 dollars apiece, and 5 lambs at 2 dollars apiece. How many dollars did he receive for all?

Three times 8 added to three times 3 are how many?

A farmer sold 7 cords of wood at 8 dollars a cord, and 9 tons of hay at 9 dollars a ton. How much did he receive for all?

LESSON L.

1 from 2 leaves 1	1 from 2 leaves how many?
1 from 3 leaves 2	2 from 3 leaves how many?
1 from 4 leaves 3	3 from 4 leaves how many?
1 from 5 leaves 4	4 from 5 leaves how many?
1 from 6 leaves 5	5 from 6 leaves how many?
1 from 7 leaves 6	6 from 7 leaves how many?
1 from 8 leaves 7	7 from 8 leaves how many?
1 from 9 leaves 8	8 from 9 leaves how many?
1 from 10 leaves 9	9 from 10 leaves how many?

Mary made 10 marks on her slate, and rubbed out 9 of them. How many were left?

George bought 6 apples, and gave away 5 of them. How many had he left?

James had 4 marbles, and lost three of them. How many had he left?

LESSON LI.

2 from 4 leaves 2	2 from 4 leaves how many?
2 from 5 leaves 3	3 from 5 leaves how many?
2 from 6 leaves 4	4 from 6 leaves how many?
2 from 7 leaves 5	5 from 7 leaves how many?
2 from 8 leaves 6	6 from 8 leaves how many?
2 from 9 leaves 7	7 from 9 leaves how many?
2 from 10 leaves 8	8 from 10 leaves how many?
2 from 11 leaves 9	9 from 11 leaves how many?
2 from 12 leaves 10	10 from 12 leaves how many?

William had 7 cents, and spent 5 of them for cake. How many had he left?

John had 12 chickens, but 10 of them died. How many had he left?

George is 11 years old, and Mary is 9. How many years older than Mary is George?

LESSON LII.

3 from 5 leaves 2	2 from 5 leaves how many?
3 from 6 leaves 3	3 from 6 leaves how many?
3 from 7 leaves 4	4 from 7 leaves how many?
3 from 8 leaves 5	5 from 8 leaves how many?
3 from 9 leaves 6	6 from 9 leaves how many?
3 from 10 leaves 7	7 from 10 leaves how many?
3 from 11 leaves 8	8 from 11 leaves how many?
3 from 12 leaves 9	9 from 12 leaves how many?

A farmer received 12 dollars for hay, and 9 dollars for potatoes. How much more did he receive for hay than potatoes?

James had 10 cents, and gave 3 to George. How many had he left?

Edward bought 11 oranges, and gave away 3 of them. How many had he left?

LESSON LIII.

4 from 6 leaves 2	2 from 6 leaves how many?
4 from 7 leaves 3	3 from 7 leaves how many?
4 from 8 leaves 4	4 from 8 leaves how many?
4 from 9 leaves 5	5 from 9 leaves how many?
4 from 10 leaves 6	6 from 10 leaves how many?
4 from 11 leaves 7	7 from 11 leaves how many?
4 from 12 leaves 8	8 from 12 leaves how many?

If 4 apples be taken from 12 apples, how many will be left?

If there are 9 sheep in one pasture, and 5 of them escape, how many will be left?

A farmer had 10 dollars, and paid away 6 for a barrel of flour. How many had he left?

If 7 books be taken from 11 books, how many will be left?

LESSON LIV.

5 from 6 leaves 1	1 from 6 leaves how many?
5 from 7 leaves 2	2 from 7 leaves how many?
5 from 8 leaves 3	3 from 8 leaves how many?
5 from 9 leaves 4	4 from 9 leaves how many?
5 from 10 leaves 5	5 from 10 leaves how many?
5 from 11 leaves 6	6 from 11 leaves how many?
5 from 12 leaves 7	7 from 12 leaves how many?
5 from 13 leaves 8	8 from 13 leaves how many?
5 from 14 leaves 9	9 from 14 leaves how many?
5 from 15 leaves 10	10 from 15 leaves how many?

If you make 7 marks on the slate, and rub out 5 of them, how many will remain?

If there are 12 sheep in a pasture, and 5 jump out, how many will remain?

James had 15 cents, and spent 5 for pencils. How many had he left?

LESSON LV.

6 from 7 leaves 1	1 from 7 leaves how many?
6 from 8 leaves 2	2 from 8 leaves how many?
6 from 9 leaves 3	3 from 9 leaves how many?
6 from 10 leaves 4	4 from 10 leaves how many?
6 from 11 leaves 5	5 from 11 leaves how many?
6 from 12 leaves 6	6 from 12 leaves how many?
6 from 13 leaves 7	7 from 13 leaves how many?
6 from 14 leaves 8	8 from 14 leaves how many?
6 from 15 leaves 9	9 from 15 leaves how many?
6 from 16 leaves 10	10 from 16 leaves how many?

George had 13 nuts, and gave 6 of them away. How many had he left?

A farmer drove 16 sheep to market, and sold 10 of them. How many had he left?

LESSON LVI.

7 from 8 leaves 1	1 from 8 leaves how many?
7 from 9 leaves 2	2 from 9 leaves how many?
7 from 10 leaves 3	3 from 10 leaves how many?
7 from 11 leaves 4	4 from 11 leaves how many?
7 from 12 leaves 5	5 from 12 leaves how many?
7 from 13 leaves 6	6 from 13 leaves how many?
7 from 14 leaves 7	7 from 14 leaves how many?
7 from 15 leaves 8	8 from 15 leaves how many?
7 from 16 leaves 9	9 from 16 leaves how many?
7 from 17 leaves 10	10 from 17 leaves how many?

A man filled a cask, containing 16 gallons, with water; 7 gallons leaked out. How many gallons remained in the cask?

A grocer bought coffee for 17 dollars, and sold it for 7 dollars. How much did he lose?

LESSON LVII.

8 from 9 leaves 1	1 from 9 leaves how many?
8 from 10 leaves 2	2 from 10 leaves how many?
8 from 11 leaves 3	3 from 11 leaves how many?
8 from 12 leaves 4	4 from 12 leaves how many?
8 from 13 leaves 5	5 from 13 leaves how many?
8 from 14 leaves 6	6 from 14 leaves how many?
8 from 15 leaves 7	7 from 15 leaves how many?
8 from 16 leaves 8	8 from 16 leaves how many?
8 from 17 leaves 9	9 from 17 leaves how many?
8 from 18 leaves 10	10 from 18 leaves how many?

A merchant bought goods for 8 dollars, and sold them for 18 dollars. How much did he gain?

James is 17 years old, and William 8 years. What is the difference in their ages?

LESSON LVIII.

9 from 10 leaves 1	1 from 10 leaves how many?
9 from 11 leaves 2	2 from 11 leaves how many?
9 from 12 leaves 3	3 from 12 leaves how many?
9 from 13 leaves 4	4 from 13 leaves how many?
9 from 14 leaves 5	5 from 14 leaves how many?
9 from 15 leaves 6	6 from 15 leaves how many?
9 from 16 leaves 7	7 from 16 leaves how many?
9 from 17 leaves 8	8 from 17 leaves how many?
9 from 18 leaves 9	9 from 18 leaves how many?
9 from 19 leaves 10	10 from 19 leaves how many?

Jane paid 18 cents for muslin, and 10 cents for ribbon. How much did the muslin cost more than the ribbon?

Thomas had 19 cents, and Stephen had 9. How many more had Thomas than Stephen?

LESSON LIX.

10 from 11 leaves 1	1 from 11 leaves how many?
10 from 12 leaves 2	2 from 12 leaves how many?
10 from 13 leaves 3	3 from 13 leaves how many?
10 from 14 leaves 4	4 from 14 leaves how many?
10 from 15 leaves 5	5 from 15 leaves how many?
10 from 16 leaves 6	6 from 16 leaves how many?
10 from 17 leaves 7	7 from 17 leaves how many?
10 from 18 leaves 8	8 from 18 leaves how many?
10 from 19 leaves 9	9 from 19 leaves how many?
10 from 20 leaves 10	10 from 20 leaves how many?

Benjamin sold a knife for 20 cents, which was 10 cents more than he gave for it. How much did he give for it?

Mary is 17 years old, John is 10. What is the difference in their ages?

LESSON LX.

A mechanic received 15 dollars for work, and paid 4 dollars for board. How many dollars did he save?

There were 20 gallons of water in a cask; 9 gallons leaked out. How many gallons remained in the cask?

A merchant bought sugar for 18 dollars, and was obliged to sell it for 10 dollars. How much did he lose?

William is 17 years old, and Jane is 8. What is the difference in their ages?

George had 19 cents, and spent 7 for nuts. How many cents had he left?

Lucy had 13 pears, and gave her brother 7 of them. How many had she left?

LESSON LXI.

If there are 17 scholars in one class, and 8 leave, how many will remain?

How many must be added to 7 to make 14?

How many must be added to 9 to make 20? How many to make 16? How many to make 13? How many to make 11?

Susan has 8 plums. How many more must she receive to make 19?

William had 15 chickens, and lost 7. How many had he left?

Robert caught 19 fish, and Henry caught 8. How many more did Robert catch than Henry?

John and Hugh gathered 7 quarts of nuts. How many more must they gather to make 13 quarts?

George gave 19 peaches to his brother, and 9 to his sister. How many more did he give his brother than sister?

LESSON LXII.

2 in 2, once	2 times 1 are how many?
2 in 4, 2 times	2 times 2 are how many?
2 in 6, 3 times	3 times 2 are how many?
2 in 8, 4 times	4 times 2 are how many?
2 in 10, 5 times	5 times 2 are how many?
2 in 12, 6 times	6 times 2 are how many?
2 in 14, 7 times	7 times 2 are how many?
2 in 16, 8 times	8 times 2 are how many?
2 in 18, 9 times	9 times 2 are how many?
2 in 20, 10 times	10 times 2 are how many?

Julia divided 14 peaches among 2 girls. How many did she give them apiece?

If 9 apples cost 18 cents, what will 1 apple cost?

If 2 barrels of flour are worth 14 dollars, what is 1 barrel worth?

LESSON LXIII.

3 in 3, once	Once 3 are how many?
3 in 6, 2 times	2 times 3 are how many?
3 in 9, 3 times	3 times 3 are how many?
3 in 12, 4 times	4 times 3 are how many?
3 in 15, 5 times	5 times 3 are how many?
3 in 18, 6 times	6 times 3 are how many?
3 in 21, 7 times	7 times 3 are how many?
3 in 24, 8 times	8 times 3 are how many?
3 in 27, 9 times	9 times 3 are how many?
3 in 30, 10 times	10 times 3 are how many?

A man paid 24 dollars for 8 sheep. How many dollars did he give apiece?

If a man can travel 3 miles in 1 hour, how long will it take him to travel 27 miles?

3 in 27 how many times?

LESSON LXIV.

4 in 4, once	Once 4 are how many?
4 in 8, 2 times	2 times 4 are how many?
4 in 12, 3 times	3 times 4 are how many?
4 in 16, 4 times	4 times 4 are how many?
4 in 20, 5 times	5 times 4 are how many?
4 in 24, 6 times	6 times 4 are how many?
4 in 28, 7 times	7 times 4 are how many?
4 in 32, 8 times	8 times 4 are how many?
4 in 36, 9 times	9 times 4 are how many?
4 in 40, 10 times	10 times 4 are how many?

If 20 apples were divided among 5 boys, how many would they receive apiece?

At 4 dollars a barrel, how many barrels of flour can be bought for 36 dollars? How many for 28 dollars?

LESSON LXV.

5 in 5, once	Once 5 are how many?
5 in 10, 2 times	2 times 5 are how many?
5 in 15, 3 times	3 times 5 are how many?
5 in 20, 4 times	4 times 5 are how many?
5 in 25, 5 times	5 times 5 are how many?
5 in 30, 6 times	6 times 5 are how many?
5 in 35, 7 times	7 times 5 are how many?
5 in 40, 8 times	8 times 5 are how many?
5 in 45, 9 times	9 times 5 are how many?
5 in 50, 10 times	10 times 5 are how many?

If one cow is worth 5 sheep, how many cows can be bought for 25 sheep? How many for 35 sheep?

If one yard of cloth is worth 5 dollars, how many yards can be bought for 50 dollars? How many for 45 dollars? How many for 30 dollars?

LESSON LXVI.

6 in 6, once	Once 6 are how many?
6 in 12, 2 times	2 times 6 are how many?
6 in 18, 3 times	3 times 6 are how many?
6 in 24, 4 times	4 times 6 are how many?
6 in 30, 5 times	5 times 6 are how many?
6 in 36, 6 times	6 times 6 are how many?
6 in 42, 7 times	7 times 6 are how many?
6 in 48, 8 times	8 times 6 are how many?
6 in 54, 9 times	9 times 6 are how many?
6 in 60, 10 times	10 times 6 are how many?

How many oranges can be bought for 30 cents, at 6 cents apiece?

In an orchard there are 42 trees standing in rows, and 6 trees in a row. How many rows are there?

LESSON LXVII.

7 in 7, once	Once 7 are how many?
7 in 14, 2 times	2 times 7 are how many?
7 in 21, 3 times	3 times 7 are how many?
7 in 28, 4 times	4 times 7 are how many?
7 in 35, 5 times	5 times 7 are how many?
7 in 42, 6 times	6 times 7 are how many?
7 in 49, 7 times	7 times 7 are how many?
7 in 56, 8 times	8 times 7 are how many?
7 in 63, 9 times	9 times 7 are how many?
7 in 70, 10 times	10 times 7 are how many?

If 42 apples are divided among 7 boys, how many will they receive apiece?

If one man can do a piece of work in 56 days, how long will it take 7 men to do the same?

How many eggs can be bought for 63 cents, at 7 cents a dozen?

LESSON LXVIII.

8 in 8, once	Once 8 are how many?
8 in 16, 2 times.	2 times 8 are how many?
8 in 24, 3 times	3 times 8 are how many?
8 in 32, 4 times	4 times 8 are how many?
8 in 40, 5 times	5 times 8 are how many?
8 in 48, 6 times	6 times 8 are how many?
8 in 56, 7 times	7 times 8 are how many?
8 in 64, 8 times	8 times 8 are how many?
8 in 72, 9 times	9 times 8 are how many?
8 in 80, 10 times	10 times 8 are how many?

If 64 apples are put in 8 baskets, how many will be in each basket?

If a horse can travel 8 miles in one hour, how long will he be travelling 72 miles?

LESSON LXIX.

9 in 9, once	Once 9 are how many?
9 in 18, 2 times	2 times 9 are how many?
9 in 27, 3 times	3 times 9 are how many?
9 in 36, 4 times	4 times 9 are how many?
9 in 45, 5 times	5 times 9 are how many?
9 in 54, 6 times	6 times 9 are how many?
9 in 63, 7 times	7 times 9 are how many?
9 in 72, 8 times	8 times 9 are how many?
9 in 81, 9 times	9 times 9 are how many?
9 in 90, 10 times	10 times 9 are how many?

If 45 dollars are divided among 9 soldiers, how many dollars will each receive?

How many dozen of eggs can be bought for 72 cents, at 9 cents a dozen?

If 90 nuts be divided among 9 boys, how many will each receive?

LESSON LXX.

10 in 10 once	Once 10 are how many?
10 in 20 2 times	2 times 10 are how many?
10 in 30 3 times	3 times 10 are how many?
10 in 40 4 times	4 times 10 are how many?
10 in 50 5 times	5 times 10 are how many?
10 in 60 6 times	6 times 10 are how many?
10 in 70 7 times	7 times 10 are how many?
10 in 80 8 times	8 times 10 are how many?
10 in 90 9 times	9 times 10 are how many?
10 in 100 10 times	10 times 10 are how many?

If 60 apples were divided among 10 boys, how many apples would they receive apiece?

At 10 cents a yard, how many yards of calico can be bought for 90 cents?

At 10 cents a quart, how many quarts of cherries can be bought for 40 cents? How many for 60 cents?

LESSON LXXI.

At 9 dollars a ton, how many tons of hay can be bought for 54 dollars? How many for 63 dollars?

If a horse can travel 8 miles in one hour, how long will he be travelling 56 miles? How long 72 miles?

How many cords of wood can be bought for 63 dollars, at 7 dollars a cord?

How many oranges, at 4 cents apiece, can be bought for 40 cents? How many for 36 cents? How many for 28 cents?

If 1 man can do a piece of work in 81 days, how long would it take 9 men to do the same work?

How many yards of ribbon, at 7 cents a yard, can be bought for 35 cents? How many for 42 cents?

LESSON LXXII.

4 times 2 are how many times 4? how many times 2? 8 times 3 are how many times 6? how many times 8? 6 times 6 are how many times 4? how many times 9? 9 times 4 are how many times 6? how many times 4? 4 times 5 are how many times 10? how many times 2? 3 times 10 are how many times 5? how many times 6? 8 times 5 are how many times 4? how many times 10? 6 times 3 are how many times 9? how many times 2? 4 times 3 are how many times 6? how many times 2? 4 times 4 are how many times 2? how many times 8?

How many barrels of flour, at 6 dollars a barrel, can be bought for 24 dollars? For 30? 36? 42? 48?

At 9 cents a pound, how many pounds of beef can be bought for 81 cents? For 18? 27? 36? 45? 54?

LESSON LXXIII.

12, how many times 4? how many times 3?
15, how many times 5? how many times 3?
16, how many times 8? how many times 4?
20, how many times 5? how many times 4?
24, how many times 6? how many times 8?
30, how many times 5? how many times 6?
32, how many times 8? how many times 4?
48, how many times 8? how many times 6?
45, how many times 9? how many times 5?
54, how many times 9? how many times 6?
56, how many times 7? how many times 8?
63, how many times 9? how many times 7?
72, how many times 8? how many times 9?
80, how many times 10? how many times 8?
90, how many times 9? how many times 10?

LESSON LXXIV.

The pupil should now be made perfectly familiar with the following signs: —

The sign of addition, +, is read "*and*," or "*added to;*" as, 2+2 is read, 2 and 2; 3+3 is read, 3 and 3.

The sign of multiplication, ×, is "*times*," or "*multiplied by;*" as, 4×4 is read, 4 times 4; 5×5 is read, 5 times 5.

The sign of subtraction, —, is read "*less*," or "*minus;*" as, 8—4 is read, 8 less 4; 6—2 is read, 6 less 2.

The sign of equality, =, is read "*are*," or "*are equal to;*" as, 2 and 2=4, is read, 2 and 2 are 4; 6 and 6=12, is read, 6 and 6 are 12.

Read the following expressions: 4+2=6; 8+6=14; 5+3=8; 7+4=11; 10+2=12; 8+7=15. 2×4=8; 3×4=12; 4×5=20; 6×5=30; 7×8=56. 6—4=2; 8—6=2; 10—4=6; 9—7=2; 12—8=4.

LESSON LXXV.

Write the following with signs: 4 and 8 are 12; 8 and 8 are 16; 9 and 3 are 12; 8 and 7 are 15. 4 times 6 are 24; 5 times 7 are 35; 8 times 6 are 48. 8 less 6 are 2; 9 less 6 are 3; 10 less 4 are 6. 7 times 3 are 21; 9 times 4 are 36; 8 times 5 are 40.

5+2 are how many?	7+3 are how many?
6+4 are how many?	8+5 are how many?
8+2 are how many?	9+6 are how many?
2×2 are how many?	3×4 are how many?
6×6 are how many?	8×4 are how many?
9×6 are how many?	10×7 are how many?
8—4 are how many?	6—2 are how many?
7—5 are how many?	11—6 are how many?
8—5 are how many?	12—9 are how many?

LESSON LXXVI.

If any thing be divided into two equal parts, one of the parts would be one half.

If an orange be divided into two equal parts, one of the parts would be one half of the orange.

How many halves in 1?	How many halves in 6?
How many halves in 2?	How many halves in 7?
How many halves in 3?	How many halves in 8?
How many halves in 4?	How many halves in 9?
How many halves in 5?	How many halves in 10?

How many whole oranges are there in 2 halves?
How many whole numbers are there in 4 halves?
How many whole numbers are there in 6 halves?
How many whole numbers are there in 8 halves?
How many whole numbers are there in 10 halves?

LESSON LXXVII.

2 is the half of what number? 3 is the half of what number? 4 is the half of what number? 5 is the half of what number? 6 is the half of what number? 7 is the half of what number? 8 is the half of what number? 9 is the half of what number? 10 is the half of what number? 11 is the half of what number? 12 is the half of what number? 13 is the half of what number? 14 is the half of what number? 15 is the half of what number?

If an orange cost 4 cents, what will one half of an orange cost?

If a yard of cloth is worth 6 dollars, how much is one half of a yard worth?

If one half of a barrel of flour is worth 4 dollars, how much is a barrel worth?

LESSON LXXVIII.

How many halves in 1 and one half? In 3 halves how many whole numbers?

How many halves in 2 and one half? In 5 halves how many whole numbers?

How many halves in 3 and one half? In 7 halves how many whole numbers?

How many halves in 4 and one half? In 9 halves how many whole numbers?

How many halves in 5 and one half? In 11 halves how many whole numbers?

How many halves in 6 and one half? In 13 halves how many whole numbers?

How many halves in 7 and one half? In 15 halves how many whole numbers?

How many halves in 8 and one half? 9 and one half?

LESSON LXXIX.

3 are once 2 and the half of 2. Once 2 and the half of 2 are how many?

5 are twice 2 and the half of 2. Twice 2 and the half of 2 are how many?

7 are three times 2 and the half of 2. Three times 2 and the half of 2 are how many?

9 are four times 2 and the half of 2. Four times 2 and the half of 2 are how many?

11 are five times 2 and the half of two. Five times 2 and the half of 2 are how many?

13 are six times 2 and the half of 2. Six times 2 and the half of 2 are how many?

15 are seven times 2 and the half of 2. Seven times 2 and the half of 2 are how many?

How many halves in 7 whole numbers and 5 halves?

LESSON LXXX.

If any thing be divided into three equal parts, each of the parts would be one third.

How many thirds in 1?	How many thirds in 6?
How many thirds in 2?	How many thirds in 7?
How many thirds in 3?	How many thirds in 8?
How many thirds in 4?	How many thirds in 9?
How many thirds in 5?	How many thirds in 10?

How many whole numbers in 3 thirds?
How many whole numbers in 6 thirds?
How many whole numbers in 9 thirds?
How many whole numbers in 12 thirds?
How many whole numbers in 15 thirds? In 18 thirds? In 21 thirds? In 24 thirds? In 27 thirds? In 30 thirds?

How many thirds of a bushel in 3 bushels? How many thirds of a bushel in 4 bushels? In 5 bushels? In 8 bushels?

LESSON LXXXI.

1 is the third of what number? 2 is the third of what number? 3 is the third of what number? 4 is the third of what number? 5 is the third of what number? 6 is the third of what number? 7 is the third of what number? 8 is the third of what number? 9 is the third of what number? 10 is the third of what number? 11 is the third of what number? 12 is the third of what number? 13 is the third of what number? 14 is the third of what number? 15 is the third of what number? 16 is the third of what number?

If 15 dollars be equally divided among 3 men, how many dollars would each receive?

LESSON LXXXII.

How many thirds in 1 and one third? In 4 thirds how many whole numbers?

How many thirds in 1 and two thirds? In 5 thirds how many whole numbers?

How many thirds in 2 and one third? In 7 thirds how many whole numbers?

How many thirds in 2 and two thirds? In 8 thirds how many whole numbers?

How many thirds in 3 and one third? In 10 thirds how many whole numbers?

How many thirds in 3 and two thirds? In 11 thirds how many whole numbers?

How many thirds in 4 and one-third? In 13 thirds how many whole numbers?

How many thirds in 4 and two thirds? In 5 and one third?

LESSON LXXXIII.

4 are once 3 and the third of 3. Once 3 and the third of 3 are how many?

5 are once 3 and two thirds of 3. Once 3 and two thirds of 3 are how many?

7 are twice 3 and the third of 3. Twice 3 and the third of 3 are how many?

8 are twice 3 and two thirds of 3. Twice 3 and two thirds of 3 are how many?

10 are three times 3 and one third of 3. Three times 3 and the third of 3 are how many?

11 are three times 3 and two thirds of 3. Three times 3 and two thirds of 3 are how many?

13 are four times 3 and one third of 3. Four times 3 and one third of 3 are how many?

How many thirds in 6 and two thirds?

LESSON LXXXIV.

If any thing be divided into four equal parts, one of the parts would be one fourth.

How many fourths in 1?
How many fourths in 2?
How many fourths in 3?
How many fourths in 4?
How many fourths in 5?
How many fourths in 6?
How many fourths in 7?
How many fourths in 8?
How many fourths in 9?
How many fourths in 10?

How many whole numbers in 4 fourths?
How many whole numbers in 8 fourths?
How many whole numbers in 12 fourths?
How many whole numbers in 16 fourths?
How many whole numbers in 20 fourths?
How many whole numbers in 24 fourths?
How many whole numbers in 28 fourths?
How many whole numbers in 32 fourths?

LESSON LXXXV.

1 is the fourth of what number? 2 is the fourth of what number? 3 is the fourth of what number? 4 is the fourth of what number? 5 is the fourth of what number? 6 is the fourth of what number? 7 is the fourth of what number? 8 is the fourth of what number? 9 is the fourth of what number? 10 is the fourth of what number? 11 is the fourth of what number? 12 is the fourth of what number? 13 is the fourth of what number? 14 is the fourth of what number? 15 is the fourth of what number?

If wood be worth 4 dollars a cord, what part of a cord can be bought for 1 dollar? 2 dollars? 3 dollars?

If wood be worth 4 dollars a cord, what would one fourth of a cord be worth?

LESSON LXXXVI.

How many fourths in 1 and one fourth? In 5 fourths how many whole numbers?

How many fourths in 1 and two fourths? In 6 fourths how many whole numbers?

How many fourths in 1 and three fourths? In 7 fourths how many whole numbers?

How many fourths in 2 and one fourth? In 9 fourths how many whole numbers?

How many fourths in 2 and two fourths? In 10 fourths how many whole numbers?

How many fourths in 2 and three fourths? In 11 fourths how many whole numbers?

How many fourths in 3 and one fourth? In 13 fourths how many whole numbers?

How many fourths in 3 and two fourths? in 4 and one fourth?

LESSON LXXXVII.

5 are once 4 and the fourth of 4. Once 4 and the fourth of 4 are how many?

6 are once 4 and two fourths of 4. Once 4 and two fourths of 4 are how many?

7 are once 4 and three fourths of 4. Once 4 and three fourths of 4 are how many?

9 are twice 4 and one fourth of 4. Twice 4 and one fourth of 4 are how many?

10 are twice 4 and two fourths of 4. Twice 4 and two fourths of 4 are how many?

11 are twice 4 and three fourths of 4. Twice 4 and three fourths of 4 are how many?

13 are 3 times 4 and one fourth of 4. Three times 4 and one fourth of 4 are how many?

How many fourths in 4 and four fourths?

LESSON LXXXVIII.

If any thing be divided into five equal parts, one of the parts would be one fifth.

How many fifths in 1?
How many fifths in 2?
How many fifths in 3?
How many fifths in 4?
How many fifths in 5?

How many fifths in 6?
How many fifths in 7?
How many fifths in 8?
How many fifths in 9?
How many fifths in 10?

How many whole numbers in 5 fifths?
How many whole numbers in 10 fifths?
How many whole numbers in 15 fifths?
How many whole numbers in 20 fifths?
How many whole numbers in 25 fifths?
How many whole numbers in 30 fifths?
How many whole numbers in 35 fifths?
How many whole numbers in 40 fifths?

LESSON LXXXIX.

1 is the fifth of what number? 2 is the fifth of what number? 3 is the fifth of what number? 4 is the fifth of what number? 5 is the fifth of what number? 6 is the fifth of what number? 7 is the fifth of what number? 8 is the fifth of what number? 9 is the fifth of what number? 10 is the fifth of what number? 11 is the fifth of what number? 12 is the fifth of what number? 13 is the fifth of what number? 14 is the fifth of what number? 15 is the fifth of what number? 16 is the fifth of what number?

If a yard of cloth be worth 5 dollars, what part of a yard can be bought for 1 dollar? What part for 2 dollars? for 3 dollars? for 4 dollars? for 5 dollars?

LESSON XC.

How many fifths in 1 and one fifth? In 6 fifths how many whole numbers?

How many fifths in 1 and two fifths? In 7 fifths how many whole numbers?

How many fifths in 1 and three fifths? In 8 fifths how many whole numbers?

How many fifths in 1 and four fifths? In 9 fifths how many whole numbers?

How many fifths in 2 and one fifth? In 11 fifths how many whole numbers?

How many fifths in 2 and two fifths? In 12 fifths how many whole numbers?

How many fifths in 2 and three fifths? In 13 fifths how many whole numbers?

How many fifths in 2 and four fifths?

LESSON XCI.

6 are once 5 and one fifth of 5. Once 5 and one fifth of 5 are how many?

7 are once 5 and two fifths of 5. Once 5 and two fifths of 5 are how many?

8 are once 5 and three fifths of 5. Once 5 and three fifths of 5 are how many?

9 are once 5 and four fifths of 5. Once 5 and four fifths of 5 are how many?

11 are twice 5 and one fifth of 5. Twice 5 and one fifth of 5 are how many?

12 are twice 5 and two fifths of 5. Twice 5 and two fifths of 5 are how many?

13 are twice 5 and three fifths of 5. Twice 5 and three fifths of 5 are how many?

How many fifths in 5 and five fifths?

LESSON XCII.

If any thing be divided into six equal parts, one of the parts would be one sixth.

How many sixths in 1?
How many sixths in 2?
How many sixths in 3?
How many sixths in 4?
How many sixths in 5?
How many sixths in 6?
How many sixths in 7?
How many sixths in 8?
How many sixths in 9?
How many sixths in 10?

How many whole numbers in 6 sixths?
How many whole numbers in 12 sixths?
How many whole numbers in 18 sixths?
How many whole numbers in 24 sixths?
How many whole numbers in 30 sixths?
How many whole numbers in 36 sixths?
How many whole numbers in 42 sixths?
How many whole numbers in 48 sixths?

LESSON XCIII.

1 is the sixth of what number? 2 is the sixth of what number? 3 is the sixth of what number? 4 is the sixth of what number? 5 is the sixth of what number? 6 is the sixth of what number? 7 is the sixth of what number? 8 is the sixth of what number? 9 is the sixth of what number? 10 is the sixth of what number? 11 is the sixth of what number? 12 is the sixth of what number? 13 is the sixth of what number? 14 is the sixth of what number? 15 is the sixth of what number?

If corn can be bought for 6 shillings a bushel, what part of a bushel can be bought for 1 shilling? What part for 2 shillings? for 3 shillings? for 4 shillings? for 5 shillings?

LESSON XCIV.

How many sixths in 1 and one sixth? In 7 sixths how many whole numbers?

How many sixths in 1 and two sixths? In 8 sixths how many whole numbers?

How many sixths in 1 and three sixths? In 9 sixths how many whole numbers?

How many sixths in 1 and four sixths? In 10 sixths how many whole numbers?

How many sixths in 1 and five sixths? In 11 sixths how many whole numbers?

How many sixths in 2 and one sixth? In 13 sixths how many whole numbers?

How many sixths in 2 and two sixths? In 14 sixths how many whole numbers?

How many sixths in 2 and three sixths? in 2 and four sixths?

LESSON XCV.

7 are once 6 and 1 sixth of 6. Once 6 and 1 sixth of 6 are how many?

8 are once 6 and 2 sixths of 6. Once 6 and 2 sixths of 6 are how many?

9 are once 6 and 3 sixths of 6. Once 6 and 3 sixths of 6 are how many?

10 are once 6 and 4 sixths of 6. Once 6 and 4 sixths of 6 are how many?

11 are once 6 and 5 sixths of 6. Once 6 and 5 sixths of 6 are how many?

13 are twice 6 and 1 sixth of 6. Twice 6 and 1 sixth of 6 are how many?

14 are twice 6 and 2 sixths of 6. Twice 6 and 2 sixths of 6 are how many?

How many sixths in 4 and 5 sixths?

LESSON XCVI.

If any thing be divided into seven equal parts, one of the parts would be one seventh.

How many sevenths in 1? in 2? in 3? in 4? in 5? in 6? in 7? in 8? in 9? in 10? in 11? in 12?

How many whole numbers in 7 sevenths? in 14 sevenths? in 21 sevenths? in 28 sevenths? in 35 sevenths? in 42 sevenths? in 49 sevenths?

1 is the seventh of what number? 2 is the seventh of what number? 3 is the seventh of what number? 4 is the seventh of what number? 5 is the seventh of what number? 6 is the seventh of what number? 7 is the seventh of what number? 8 is the seventh of what number? 9 is the seventh of what number? 10 is the seventh of what number? 11 is the seventh of what number? 12 is the seventh of what number?

LESSON XCVII.

What part of 7 is 1? What part of 7 is 2? is 3? is 4? is 5? is 6? is 7? is 8? is 9? is 10?

8 are once 7 and 1 seventh of 7. Once 7 and 1 seventh of 7 are how many?

9 are once 7 and 2 sevenths of 7. Once 7 and 2 sevenths of 7 are how many?

10 are once 7 and 3 sevenths of 7. Once 7 and 3 sevenths of 7 are how many?

11 are once 7 and 4 sevenths of 7. Once 7 and 4 sevenths of 7 are how many?

12 are once 7 and 5 sevenths of 7. Once 7 and 5 sevenths of 7 are how many?

13 are once 7 and 6 sevenths of 7. Once 7 and 6 sevenths of 7 are how many?

How many times 7 in 15? in 16? in 17?

LESSON XCVIII.

If any thing be divided into eight equal parts, one of the parts would be one eighth.

How many eighths in 1? in 2? in 3? in 4? in 5? in 6? in 7? in 8? in 9? in 10? in 11? in 12?

How many whole numbers in 8 eighths? in 16 eighths? in 24 eighths? in 32 eighths? in 40 eighths? in 48 eighths? in 56 eighths? in 64 eighths?

1 is the eighth of what number? 2 is the eighth of what number? 3 is the eighth of what number? 4 is the eighth of what number? 5 is the eighth of what number? 6 is the eighth of what number? 7 is the eighth of what number? 8 is the eighth of what number? 9 is the eighth of what number? 10 is the eighth of what number? 11 is the eighth of what number? 12 is the eighth of what number?

LESSON XCIX.

What part of 8 is 1? What part of 8 is 2? is 3? is 4? is 5? is 6? is 7? is 8? is 9? is 10? is 11? is 12?

9 are once 8 and 1 eighth of 8. Once 8 and 1 eighth of 8 are how many?

10 are once 8 and 2 eighths of 8. Once 8 and 2 eighths of 8 are how many?

11 are once 8 and 3 eighths of 8. Once 8 and 3 eighths of 8 are how many?

12 are once 8 and 4 eighths of 8. Once eight and 4 eighths of 8 are how many?

13 are once 8 and 5 eighths of 8. Once 8 and 5 eighths of 8 are how many?

14 are once 8 and 6 eighths of 8. Once 8 and 6 ighths of 8 are how many?

LESSON C.

If any thing be divided into nine equal parts, one of the parts would be one ninth.

How many ninths in 1? in 2? in 3? in 4? in 5? in 6? in 7? in 8? in 9? in 10? in 11? in 12?

How many whole numbers in 9 ninths? in 18 ninths? in 27 ninths? in 36 ninths? in 45 ninths? in 54 ninths? in 63 ninths? in 72 ninths? in 81 ninths?

1 is the ninth of what number? 2 is the ninth of what number? 3 is the ninth of what number? 4 is the ninth of what number? 5 is the ninth of what number? 6 is the ninth of what number? 7 is the ninth of what number? 8 is the ninth of what number? 9 is the ninth of what number? 10 is the ninth of what number?

LESSON CI.

What part of 9 is 1? What part of 9 is 2? is 3? is 4? is 5? is 6? is 7? is 8? is 9?

10 are once 9 and 1 ninth of 9. Once 9 and 1 ninth of 9 are how many?

11 are once 9 and 2 ninths of 9. Once 9 and 2 ninths of 9 are how many?

12 are once 9 and 3 ninths of 9. Once 9 and 3 ninths of 9 are how many?

13 are once 9 and 4 ninths of 9. Once 9 and 4 ninths of 9 are how many?

14 are once 9 and 5 ninths of 9. Once 9 and 5 ninths of 9 are how many?

15 are once 9 and 6 ninths of 9. Once 9 and 6 ninths of 9 are how many?

16 are once 9 and 7 ninths of 9.

LESSON CII.

If any thing be divided into ten equal parts, one of the parts would be one tenth.

How many tenths in 1? in 2? in 3? in 4? in 5? in 6? in 7? in 8? in 9? in 10? in 11? in 12?

How many whole numbers in 10 tenths? in 20 tenths? in 30 tenths? in 40 tenths? in 50 tenths? in 60 tenths? in 70 tenths? in 80 tenths? in 90 tenths? in 100 tenths?

1 is the tenth of what number? 2 is the tenth of what number? 3 is the tenth of what number? 4 is the tenth of what number? 5 is the tenth of what number? 6 is the tenth of what number? 7 is the tenth of what number? 8 is the tenth of what number? 9 is the tenth of what number? 10 is the tenth of what number?

LESSON CIII.

What part of 10 is 1? What part of 10 is 2? is 3? is 4? is 5? is 6? is 7? is 8? is 9? is 10?

11 are once 10 and 1 tenth of 10. Once 10 and 1 tenth of 10 are how many?

12 are once 10 and 2 tenths of 10. Once 10 and 2 tenths of 10 are how many?

13 are once 10 and 3 tenths of 10. Once 10 and 3 tenths of 10 are how many?

14 are once 10 and 4 tenths of 10. Once 10 and 4 tenths of 10 are how many?

15 are once 10 and 5 tenths of 10. Once 10 and 5 tenths of 10 are how many?

16 are once 10 and 6 tenths of 10. Once 10 and 6 tenths of 10 are how many?

17 are once 10 and 7 tenths of 10.

LESSON CIV.

If 1 apple cost half a cent, how much will 2 apples cost? 2 times one half are how many?

If 1 apple cost half a cent, how much will 3 apples cost? How much will 4? 5? 6? 7? 8? 9? 10?

4 times one half are how many? 5 times one half are how many? 6 times one half are how many? 7 times one half are how many? 8 times one half are how many? 9 times one half are how many? 10 times one half are how many?

If 1 pound of tea cost one third of a dollar, what will 2 pounds cost? What will 3 pounds cost? 4? 5? 6? 7? 8? 9? 10?

3 times one third are how many? 4 times one third are how many? 5 times one third are how many? 6 times one third are how many?

LESSON CV.

If 1 foot of wood cost one fourth of a dollar, what will 2 feet cost? What will 3? 4? 5? 6? 7? 8? 9? 10?

3 times one fourth are how many? 4 times one fourth are how many? 5 times one fourth are how many? 6 times one fourth are how many? 7 times one fourth are how many?

If 1 pound of butter cost one fifth of a dollar, what will 2 pounds cost? What will 3 pounds cost? 4? 5? 6? 7? 8? 9? 10?

3 times one fifth are how many? 4 times one fifth are how many? 5 times one fifth are how many? 6 times one fifth are how many? 7 times one fifth are how many? 8 times one fifth are how many? 9 times one fifth are how many?

LESSON CVI.

In one half how many fourths? In two fourths how many halves?

In one half how many sixths? In three sixths how many halves?

In one half how many eighths? In four eighths how many halves?

In one half how many tenths? In five tenths how many halves?

In one third how many sixths? In two sixths how many thirds?

In one third how many ninths? In three ninths how many thirds?

In one third how many twelfths? In four twelfths how many thirds?

How many thirds in 15? in 18? in 21? in 24?

LESSON CVII.

In one fourth how many eighths? In two eighths how many fourths?

In one fourth how many twelfths? In three twelfths how many fourths?

In one fourth how many sixteenths? In four sixteenths how many fourths?

In one fourth how many twentieths? In five twentieths how many fourths?

In one fifth how many tenths? In two tenths how many fifths?

In one fifth how many fifteenths? In three fifteenths how many fifths?

In one fifth how many twentieths? In four twentieths how many fifths?

How many fifths in 25? in 30? in 35?

LESSON CVIII.

In one sixth how many twelfths? In two twelfths how many sixths?

In one sixth how many eighteenths? In three eighteenths how many sixths?

In one sixth how many twenty-fourths? In four twenty-fourths how many sixths?

In one sixth how many thirtieths? In five thirtieths how many sixths?

In one seventh how many fourteenths? In two fourteenths how many sevenths?

In one seventh how many twenty-firsts? In three twenty-firsts how many sevenths?

In one seventh how many twenty-eighths? In four twenty-eighths how many sevenths?

How many sevenths in 35? in 42? in 56?

LESSON CIX.

In one eighth how many sixteenths? In two sixteenths how many eighths?

In one eighth how many twenty-fourths? In three twenty-fourths how many eighths?

In one eighth how many thirty-seconds? In four thirty-seconds how many eighths?

In one eighth how many fortieths? In five fortieths how many eighths?

In one ninth how many eighteenths? In two eighteenths how many ninths?

In one ninth how many twenty-sevenths? In three twenty-sevenths how many ninths?

In one ninth how many thirty-sixths? In four thirty-sixths how many ninths?

How many ninths in 45? in 54? in 63?

LESSON CX.

Fractions are expressed in figures in the following manner, thus: —

One half	is written	$\frac{1}{2}$	One sixth	is written	$\frac{1}{6}$
One third	"	$\frac{1}{3}$	Two sixths	"	$\frac{2}{6}$
Two thirds	"	$\frac{2}{3}$	Three sixths	"	$\frac{3}{6}$
One fourth	"	$\frac{1}{4}$	Four sixths	"	$\frac{4}{6}$
Two fourths	"	$\frac{2}{4}$	Five sixths	"	$\frac{5}{6}$
Three fourths	"	$\frac{3}{4}$	One seventh	"	$\frac{1}{7}$, &c.
One fifth	"	$\frac{1}{5}$	One eighth	"	$\frac{1}{8}$, &c.
Two fifths	"	$\frac{2}{5}$	One ninth	"	$\frac{1}{9}$, &c.
Three fifths	"	$\frac{3}{5}$	One tenth	"	$\frac{1}{10}$, &c.
Four fifths	"	$\frac{4}{5}$	One twentieth	"	$\frac{1}{20}$, &c.

Write on the slate one half; one third; one fourth; three fifths; four sixths; one seventh; four ninths; six tenths.

LESSON CXI.

One third of any thing, as an apple, an orange, &c., expressed in figures, is written, one figure above the line, and one below; thus, $\frac{1}{3}$.

The figure below the line is called the *denominator*, and shows into how many equal parts the single thing is divided. The figure above the line is called the *numerator*, and denotes how many parts are expressed.

In the fraction $\frac{4}{5}$, the 5 shows into how many equal parts the unit is divided. The 4 denotes how many parts are expressed by the fraction.

Into how many equal parts is the unit divided, and how many parts are expressed in $\frac{3}{7}$? in $\frac{5}{8}$? in $\frac{5}{6}$? in $\frac{8}{9}$? in $\frac{7}{10}$? in $\frac{9}{20}$?

LESSON CXII.

$\frac{1}{2}$ of $\frac{1}{3}$ is $\frac{1}{6}$	$\frac{1}{3}$ of $\frac{1}{2}$ is how much?
$\frac{1}{2}$ of $\frac{1}{4}$ is $\frac{1}{8}$	$\frac{1}{4}$ of $\frac{1}{2}$ is how much?
$\frac{1}{2}$ of $\frac{1}{5}$ is $\frac{1}{10}$	$\frac{1}{5}$ of $\frac{1}{2}$ is how much?
$\frac{1}{2}$ of $\frac{1}{6}$ is $\frac{1}{12}$	$\frac{1}{6}$ of $\frac{1}{2}$ is how much?
$\frac{1}{2}$ of $\frac{1}{7}$ is $\frac{1}{14}$	$\frac{1}{7}$ of $\frac{1}{2}$ is how much?
$\frac{1}{2}$ of $\frac{1}{8}$ is $\frac{1}{16}$	$\frac{1}{8}$ of $\frac{1}{2}$ is how much?
$\frac{1}{2}$ of $\frac{1}{9}$ is $\frac{1}{18}$	$\frac{1}{9}$ of $\frac{1}{2}$ is how much?
$\frac{1}{2}$ of $\frac{1}{10}$ is $\frac{1}{20}$	$\frac{1}{10}$ of $\frac{1}{2}$ is how much?
$\frac{1}{3}$ of $\frac{1}{3}$ is $\frac{1}{9}$	$\frac{1}{3}$ of $\frac{1}{3}$ is how much?
$\frac{1}{3}$ of $\frac{1}{4}$ is $\frac{1}{12}$	$\frac{1}{4}$ of $\frac{1}{3}$ is how much?
$\frac{1}{3}$ of $\frac{1}{5}$ is $\frac{1}{15}$	$\frac{1}{5}$ of $\frac{1}{3}$ is how much?
$\frac{1}{3}$ of $\frac{1}{6}$ is $\frac{1}{18}$	$\frac{1}{6}$ of $\frac{1}{3}$ is how much?
$\frac{1}{3}$ of $\frac{1}{7}$ is $\frac{1}{21}$	$\frac{1}{7}$ of $\frac{1}{3}$ is how much?
$\frac{1}{3}$ of $\frac{1}{8}$ is $\frac{1}{24}$	$\frac{1}{8}$ of $\frac{1}{3}$ is how much?
$\frac{1}{3}$ of $\frac{1}{9}$ is $\frac{1}{27}$	$\frac{1}{9}$ of $\frac{1}{3}$ is how much?

LESSON CXIII.

$\frac{1}{4}$ of $\frac{1}{4}$ is $\frac{1}{16}$	$\frac{1}{4}$ of $\frac{1}{4}$ is how much?
$\frac{1}{4}$ of $\frac{1}{5}$ is $\frac{1}{20}$	$\frac{1}{5}$ of $\frac{1}{4}$ is how much?
$\frac{1}{4}$ of $\frac{1}{6}$ is $\frac{1}{24}$	$\frac{1}{6}$ of $\frac{1}{4}$ is how much?
$\frac{1}{4}$ of $\frac{1}{7}$ is $\frac{1}{28}$	$\frac{1}{7}$ of $\frac{1}{4}$ is how much?
$\frac{1}{4}$ of $\frac{1}{8}$ is $\frac{1}{32}$	$\frac{1}{8}$ of $\frac{1}{4}$ is how much?
$\frac{1}{4}$ of $\frac{1}{9}$ is $\frac{1}{36}$	$\frac{1}{9}$ of $\frac{1}{4}$ is how much?
$\frac{1}{4}$ of $\frac{1}{10}$ is $\frac{1}{40}$	$\frac{1}{10}$ of $\frac{1}{4}$ is how much?
$\frac{1}{5}$ of $\frac{1}{5}$ is $\frac{1}{25}$	$\frac{1}{5}$ of $\frac{1}{5}$ is how much?
$\frac{1}{5}$ of $\frac{1}{6}$ is $\frac{1}{30}$	$\frac{1}{6}$ of $\frac{1}{5}$ is how much?
$\frac{1}{5}$ of $\frac{1}{7}$ is $\frac{1}{35}$	$\frac{1}{7}$ of $\frac{1}{5}$ is how much?
$\frac{1}{5}$ of $\frac{1}{8}$ is $\frac{1}{40}$	$\frac{1}{8}$ of $\frac{1}{5}$ is how much?
$\frac{1}{5}$ of $\frac{1}{9}$ is $\frac{1}{45}$	$\frac{1}{9}$ of $\frac{1}{5}$ is how much?
$\frac{1}{5}$ of $\frac{1}{10}$ is $\frac{1}{50}$	$\frac{1}{10}$ of $\frac{1}{5}$ is how much?

LESSON CXIV.

6 times 4 how many times 3? 4? 8? 12?
6 times 5 how many times 3? 4? 7? 9?
6 times 6 how many times 4? 8? 9? 7?
6 times 7 how many times 4? 3? 8? 7?
6 times 8 how many times 3? 7? 9? 4?
6 times 9 how many times 8? 6? 7? 8?
6 times 10 how many times 8? 7? 9? 6?
7 times 3 how many times 4? 6? 5? 8?
7 times 4 how many times 5? 6? 7? 8?
7 times 5 how many times 6? 8? 9? 4?
7 times 6 how many times 5? 8? 6? 4?
7 times 7 how many times 6? 7? 8? 4?
7 times 8 how many times 6? 5? 4? 9?
7 times 9 how many times 5? 6? 4? 8?
7 times 10 how many times 6? 8? 4? 5?

LESSON CXV.

8 times 4 how many times 3? 5? 6? 9?
8 times 5 how many times 4? 5? 6? 9?
8 times 6 how many times 5? 7? 9? 4?
8 times 7 how many times 6? 8? 7? 3?
8 times 8 how many times 6? 7? 9? 4?
8 times 9 how many times 6? 7? 9? 4?
8 times 10 how many times 6? 7? 9? 5?
9 times 3 how many times 4? 6? 7? 8?
9 times 4 how many times 4? 5? 6? 7?
9 times 5 how many times 5? 6? 7? 8?
9 times 6 how many times 6? 7? 8? 4?
9 times 7 how many times 6? 8? 5? 4?
9 times 8 how many times 6? 7? 8? 4?
9 times 9 how many times 4? 3? 8? 4?
9 times 10 how many times 5? 4? 6? 9?

LESSON CXVI.

FEDERAL MONEY.

Federal money is the currency of the United States.

10 mills (m.)	make 1 cent,	marked ct.	
10 cents	" 1 dime,	" d.	
10 dimes	" 1 dollar,	" $, or dol.	
10 dollars	" 1 eagle,	" E.	

How many mills in 1 cent? in 3? in 5? in 6? in 2 cents and one half? in $12\frac{1}{2}$ cents? in $8\frac{1}{4}$ cents?

How many cents in 20 mills? in 50? in 25?

How many cents in 2 dollars? in 5 dollars? in 10?

How many cents in $\frac{1}{2}$ of a dollar? $\frac{1}{5}$ of a dollar? $\frac{1}{4}$ of a dollar? $\frac{1}{8}$ of a dollar? $\frac{1}{2}$ of a dollar? $\frac{1}{10}$ of a dollar? $\frac{1}{12}$ of a dollar? $\frac{1}{16}$ of a dollar?

LESSON CXVII.

STERLING MONEY.

Sterling money is the currency of England.

4 farthings (qu. or far.)	make 1 penny,	marked d.	
12 pence	" 1 shilling,	" s.	
20 shillings	" 1 pound,	" £	
21 shillings	" 1 guinea.		

How many farthings make 1 penny? How many farthings in 4 pence? in 8 pence? in 12 pence?

How many pence in 8 farthings? in 16? in 24? in 28?

How many pence in 1 shilling? in 3 shillings? in 4? in 12? in 20?

How many shillings in 12 pence? in 48 pence?

LESSON CXVIII.

TROY WEIGHT.

24 grains (gr.)	make	1 pennyweight,	marked	pwt.
20 pennyweights	"	1 ounce,	"	oz.
12 ounces	"	1 pound,	"	lb.

How many grains in 1 pennyweight? in 2? in 3? in 5? in 8? in 10? in 12?

How many pennyweights in 24 grains? in 48 grains? In 72 grains? In 96 grains?

How many pennyweights in 1 ounce? in 4? in 6? in 8? in 9? in 10? in 12?

How many ounces in 20 pennyweights? In 40 pennyweights? in 60? in 80? in 100?

How many ounces in 1 pound? in 3 pounds? in 5 pounds? in 8 pounds? in 10 pounds?

How many pounds in 12 ounces? in 24 ounces?

LESSON CXIX.

AVOIRDUPOIS WEIGHT.

16 drams (dr.)	make	1 ounce,	marked	oz.
16 ounces	"	1 pound,	"	lb.
28 pounds	"	1 quarter,	"	qr.
4 quarters	"	1 hundred weight,	"	cwt.
20 hundred weight	"	1 ton,	"	T.

How many drams in 1 ounce? in 4? in 6? in 8?

How many ounces in 16 drams? in 32? in 48?

How many ounces in 1 pound? in 4? in 8? in 10?

How many pounds in 16 ounces? in 48? in 64?

How many pounds in 1 quarter? in 4? in 6?

How many quarters in 28 pounds? in 56? in 84?

How many quarters in 1 hundred weight? in 2?

LESSON CXX.

LONG MEASURE.

12	inches (in.)	make	1 foot,	marked	ft.
3	feet	"	1 yard,	"	yd.
5½	yds., or 16½ feet,	"	1 rod or pole,	"	rd.
40	rods	"	1 furlong,	"	fur.
8	furlongs	"	1 mile,	"	m.
3	miles	"	1 league,	"	lea.
69⅛	miles	"	1 degree,	"	deg.
360	degrees	"	a great circle.		

How many inches in 1 foot? in 8? in 9? in 10? in 12?

How many feet in 1 rod? in 2? in 3? in 4? in 6?

How many rods in 1 furlong? in 4? in 8? in 16?

How many miles in 8 furlongs? in 16? in 32? in 64? in 72? in 96? in 104? in 112?

LESSON CXXI.

SQUARE MEASURE.

144	square inches	make	1 square foot,	marked	sq. ft.
9	square feet	"	1 square yard,	"	sq. yd.
30¼	square yards, or 272¼ square feet,	"	1 square rod,	"	sq. r.
40	square rods	"	1 rood,	"	R.
4	roods, or 160 rods,	"	1 acre,	"	A.
640	acres	"	1 square mile,	"	M.

How many square inches in 1 square foot? In 2 square feet? in 3? in 4?

How many square feet in 1 square yard? in 4?

How many square feet in 1 square rod? in 2?

How many square yards in 1 square rod? in 4?

LESSON CXXI.

CLOTH MEASURE.

2¼	inches (in.)	make	1 nail,	marked	na.
4	nails	"	1 quarter of a yard,	"	qr.
3	quarters	"	1 ell Flemish,	"	E. Fl.
5	quarters	"	1 ell English,	"	E. E.
6	quarters	"	1 ell French,	"	E. Fr.

How many inches in 1 nail? How many in 4 nails? in 8 nails? in 10 nails?

How many nails in 1 quarter of a yard? 2 quarters? 4 quarters?

How many quarters in 1 yard? 2 yards? 4 yards?

How many quarters in 1 ell Flemish? How many in 4 ells Flemish? 6 ells Flemish?

How many quarters in 1 ell French? How many in 6 ells French?

LESSON CXXIII.

WINE MEASURE.

4	gills (gi.)	make	1 pint,	marked	pt.
2	pints	"	1 quart,	"	qt.
4	quarts	"	1 gallon,	"	gal.
31½	gallons	"	1 barrel,	"	bar.
42	gallons	"	1 tierce,	"	tier.
63	gallons	"	1 hogshead,	"	hhd.
2	hogsheads	"	1 pipe,	"	pi.
2	pipes	"	1 tun,	"	tun.

How many gills in 1 pint? in 2? in 4? in 8?

How many pints in 1 quart? in 3? in 4? in 6?

How many quarts in 1 gallon? in 4? in 7? in 9?

How many gallons in 1 barrel? in 4? in 5? in 6?

How many gallons in 8 quarts? in 16? in 32?

LESSON CXXIV.

ALE AND BEER MEASURE.

2 pints (pt.)	make	1 quart,	marked qt.
4 quarts	"	1 gallon,	" gal.
36 gallons	"	1 barrel,	" bar.
54 gallons	"	1 hogshead,	" hhd.

How many pints in 1 quart? in 4? in 8? in 10?
How many quarts in 4 pints? in 6? in 8? in 10?
How many gallons in 4 quarts? in 8? in 16? in 20?

DRY MEASURE.

2 pints (pt.)	make	1 quart,	marked qt.
8 quarts	"	1 peck,	" pk.
4 pecks	"	1 bushel,	" bu.
36 bushels	"	1 chaldron,	" ch.

LESSON CXXV.

TIME.

60 seconds (sec.)	make	1 minute,	marked m.
60 minutes	"	1 hour,	" hr.
24 hours	"	1 day,	" da.
7 days	"	1 week,	" wk.
4 weeks	"	1 month,	" mo.
52 weeks	"	1 year,	" yr.

How many seconds in one minute? in 2? in 4? in 5?

CIRCULAR MOTION.

60 seconds (″)	make	1 minute,	marked ′
60 minutes	"	1 degree,	" °
30 degrees	"	1 sign,	" S.
12 signs, or 360 degrees,	"	1 circle,	" C.

LESSON CXXVI.

The year is divided into 12 months; the names of which, and the number of days in each, are as follows:—

January,	the	first	month,	has 31	days.
February,	"	second	"	" 28	"
March,	"	third	"	" 31	"
April,	"	fourth	"	" 30	"
May,	"	fifth	"	" 31	"
June,	"	sixth	"	" 30	"
July,	"	seventh	"	" 31	"
August,	"	eighth	"	" 31	"
September,	"	ninth	"	" 30	"
October,	"	tenth	"	" 31	"
November,	"	eleventh	"	" 30	"
December,	"	twelfth	"	" 31	"

LESSON CXXVII.

MISCELLANEOUS TABLE.

12 things	make	1 dozen.
12 dozen	"	1 gross.
12 gross, or 144 dozen,	"	1 great gross.
20 things	"	1 score.
24 sheets of paper	"	1 quire.
20 quires	"	1 ream.

A sheet folded in two leaves is called a folio.
" folded in four leaves is called a quarto, or 4to.
" folded in eight leaves is called an octavo, or 8vo.
" folded in twelve leaves is called a duodecimo, or 12mo.
" folded in eighteen leaves is called an 18mo.

EXERCISES FOR THE SLATE.

ADDITION.

Add the following columns: —

1	2	3	4	5	6
1	2	3	4	5	6
1	2	3	4	5	6
1	2	3	4	5	6
1	2	3	4	5	6
1	2	3	4	5	6

7	8	9	10	11	12
7	8	9	10	11	12
7	8	9	10	11	12
7	8	9	10	11	12
7	8	9	10	11	12
7	8	9	10	11	12

Six times 1 are how many? 2? 3? 4? 5? 6? 7? 8? 9? 10? 11? 12?

21	23	34	56	84
12	32	54	78	48
31	42	45	96	64
13	24	65	42	46
41	52	56	32	54
14	25	76	42	45

45	87	42	36	84
54	78	24	63	63
65	98	32	42	86

ADDITION.

(1.)	(2.)	(3.)	(4.)
320	465	840	673
231	378	302	384
435	439	714	291
647	561	936	492

(5.)	(6.)	(7.)	(8.)
469	806	236	392
784	734	437	684
961	561	641	496
201	237	879	289

MULTIPLICATION.

(1.)	(2.)	(3.)	(4.)
64	72	84	96
2	3	4	5

(5.)	(6.)	(7.)	(8.)
432	845	640	346
6	7	8	9

(9.)	(10.)	(11.)	(12.)
643	439	689	403
10	11	12	13

(13.)	(14.)	(15)	(16.)
4034	5609	8409	6312
24	36	42	48

SUBTRACTION.

	(1.)	(2.)	(3.)	(4.)
From	24	48	36	64
Take	6	12	24	36

	(5.)	(6.)	(7.)	(8.)
From	364	720	864	763
Take	49	64	29	234

	(9.)	(10.)	(11.)	(12.)
From	906	846	964	672
Take	76	324	274	520

DIVISION.

(1.)	(2.)	(3.)	(4.)
2)424	3)639	4)848	5)520

(5.)	(6.)	(7.)	(8.)
6)966	7)742	8)816	9)846

(9.)	(10.)	(11.)	(12.)
12)324	13)468	14)736	15)740

(13.)	(14.)	(15.
24)9634	36)84676	48)87048

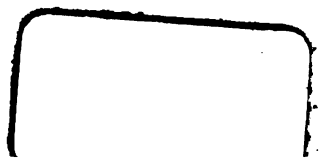
(16.)	(17.)	(18.)
64)72864	72)96045	84)76584

ROMAN NOTATION.

I.	One.	XXX.	Thirty.
II.	Two.	XXXI.	Thirty-one, &c.
III.	Three.	XL.	Forty, &c.
IV.	Four.	L.	Fifty.
V.	Five.	LX.	Sixty.
VI.	Six.	LXX.	Seventy.
VII.	Seven.	LXXX.	Eighty.
VIII.	Eight.	XC.	Ninety.
IX.	Nine.	C.	One hundred.
X.	Ten.	CC.	Two hundred.
XI.	Eleven.	CCC.	Three hundred.
XII.	Twelve.	CCCC.	Four hundred.
XIII.	Thirteen.	D.	Five hundred.
XIV.	Fourteen.	DC.	Six hundred.
XV.	Fifteen.	DCC.	Seven hundred.
XVI.	Sixteen.	DCCC.	Eight hundred.
XVII.	Seventeen.	DCCCC.	Nine hundred.
XVIII.	Eighteen.	M.	One thousand.
XIX.	Nineteen.	MD.	One thousand and five hundred.
XX.	Twenty.	MDCCCL.	
XXI.	Twenty-one, &c.		

One is represented by I., *two* by two I.'s, *three* by three I.'s, *four* by IV., *five* by V., &c.

What letters represent six? What letters represent nine? What represent eleven? what fourteen? what sixteen? what nineteen? what twenty-one? what forty? what sixty? what ninety? what one hundred and ten? what one hundred and fourteen? what one hundred and sixteen? what one thousand eight hundred and fifty?



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